

**UNITED STATES DEPARTMENT OF COMMERCE****Patent and Trademark Office**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/088,674 06/02/98 MORGAN

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023494 WM02/1214
TEXAS INSTRUMENTS INCORPORATED
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EXAMINER

NGUYEN, K

ART UNIT

PAPER NUMBER

2674

DATE MAILED:

12/14/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary	Application No.	Applicant(s)
	09/088,674	MORGAN ET AL.
	Examiner	Art Unit
	Kevin M. Nguyen	2674

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 04 October 2000.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-10 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 1-10 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claims _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are objected to by the Examiner.

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
2. Certified copies of the priority documents have been received in Application No. ____.
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. & 119(e).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

15) Notice of References Cited (PTO-892) 18) Interview Summary (PTO-413) Paper No(s). _____
16) Notice of Draftsperson's Patent Drawing Review (PTO-948) 19) Notice of Informal Patent Application (PTO-152)
17) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 20) Other: _____

DETAILED ACTION

1. The amendment filed on 10/4/2000 is entered. However, claims 1-10 have been rejected in view of the newly discovered prior art of Jones et al. (6,094,187) below.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

3. Claims 1-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Jones et al.

4. As to claims 1-5, Jones et al. teaches a method of displaying digital video data comprising pixel values which includes FIG. 4 illustrates the timing of strobe signals 50, 51 and 52 applied to a particular row electrode track to achieve temporal dither during a frame time by defining three select periods 53, 54 and 55 in the ratio 1:4:16, for example, in which the pixel can be switched to the black state, the white state or any intermediate analogue grey state as described with reference to FIG. 3 above (col. 7, lines 64-67, and col. 8, lines 1-4). The perceived overall grey level within the frame is the average of the transmission levels within the three subframes defined by the select periods 53, 54 and 55. FIG. 5a shows a spatial dither arrangement given by way of non-limiting example in which each pixel comprises two subpixels 56 and 57 formed

(col. 8, lines 4-9). Accordingly, two subpixels 56 and 57 corresponds to a first pixel and a second pixel as claimed.

5. As to claims 6-10, Jones et al. teaches a system of displaying digital video comprising pixel data which includes drive circuit costs by providing too many states in any given bit (col. 5, lines 43-44), a liquid crystal display comprises an addressable matrix of pixels (abstract).

6. Applicant's arguments with respect to claims 1-10 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892 form.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin M. Nguyen whose telephone number is 703-305-6209. The examiner can normally be reached on M-F (9:00-5:00), with alternate Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Hjerpe can be reached on 703-305-4709. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-6606 for regular communications and 703-308-6606 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

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Art Unit: 2674

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Kevin M. Nguyen
Examiner
Art Unit 2674

KN
December 8, 2000



RICHARD HJERPE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600